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Terms	Documents
18 and (barley or oat or wheat).clm.	6

US Patents Full-Text Database  
US Pre-Grant Publication Full-Text Database  
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Derwent World Patents Index

**Database:** IBM Technical Disclosure Bulletins

18 and (barley or oat or wheat).clm.

[Refine Search:](#)[Clear](#)**Search History****Today's Date:** 8/23/2001

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT,PGPB,JPAB,EPAB,DWPI	18 and (barley or oat or wheat).clm.	6	<a href="#">L9</a>
USPT,PGPB,JPAB,EPAB,DWPI	15 and diarrhea\$.clm.	25	<a href="#">L8</a>
USPT,PGPB,JPAB,EPAB,DWPI	12 and 14	0	<a href="#">L7</a>
USPT,PGPB,JPAB,EPAB,DWPI	12 and 13	4	<a href="#">L6</a>
USPT,PGPB,JPAB,EPAB,DWPI	11 and 13	597	<a href="#">L5</a>
USPT,PGPB,JPAB,EPAB,DWPI	antisecret\$	1997	<a href="#">L4</a>
USPT,PGPB,JPAB,EPAB,DWPI	diarrhea\$ or antidiarrhea\$	7304	<a href="#">L3</a>
USPT,PGPB,JPAB,EPAB,DWPI	malted adj (barley or wheat or oat)	221	<a href="#">L2</a>
USPT,PGPB,JPAB,EPAB,DWPI	barley or wheat or oat	60202	<a href="#">L1</a>

glucose were the carbohydrates. 39 references.

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(FILE 'HOME' ENTERED AT 17:07:52 ON 23 AUG 2001)

FILE 'MEDLINE, CAPLUS, FSTA' ENTERED AT 17:08:41 ON 23 AUG 2001  
L1 340016 S CEREAL OR OAT OR BARLEY OR RYE OR WHEAT OR SORGHUM OR CORN  
O  
L2 53905 S MALT###  
L3 10160 S L2 (S) L1  
L4 4124 S ANTISECRET?  
L5 1987 S ANTIDIARRHEAL#  
L6 49 S MALTED (W) CEREAL#  
L7 470 S MALTED (W) (BARLEY OR RYE OR OAT OR WHEAT)  
L8 1 S L3 AND L5  
L9 2 S L3 AND L4  
L10 1 S L9 NOT L8  
L11 19 S L1 AND L5  
L12 19 DUPLICATE REMOVE L11 (0 DUPLICATES REMOVED)  
L13 15 S L4 AND L1  
L14 11 S L13 NOT L12  
L15 10 S L14 NOT L9  
L16 7 DUPLICATE REMOVE L15 (3 DUPLICATES REMOVED)  
L17 53431 S DIARRHEA?  
L18 12 S L3 AND L17  
L19 12 S L18 NOT L12  
L20 12 S L19 NOT L16  
L21 11 S L20 NOT L9  
L22 10 DUPLICATE REMOVE L21 (1 DUPLICATE REMOVED)

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	106.08	106.38
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-14.70	-14.70

STN INTERNATIONAL LOGOFF AT 17:39:41 ON 23 AUG 2001

L12 ANSWER 16 OF 19 CAPLUS COPYRIGHT 2001 ACS  
ACCESSION NUMBER: 1984:598189 CAPLUS  
DOCUMENT NUMBER: 101:198189  
TITLE: Antidiarrhea compositions containing minerals and  
sodium acrylate polymers  
PATENT ASSIGNEE(S): Nisshin Flour Milling Co., Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 59065016	A2	19840413	JP 1982-174570	19821006
JP 03014290	B4	19910226		

AB Feeds contg. insol. minerals, such as  $Al_2Si_2O_5(OH)_4$  and bentonite, and poly(Na acrylate) [25549-84-2] are effective in controlling diarrhea in calves, piglets, and puppies. Thus, silica clay 10, poly(Na acrylate) 2, soybean ext. 1, defatted **wheat** buds 2, beer yeast 2, flour 1.58, vitamins 0.2, minerals 0.2, and lactobacilli 0.02 kg were mixed to obtain an antidiarrhea compn. for piglets.

L12 ANSWER 14 OF 19 CAPLUS COPYRIGHT 2001 ACS  
ACCESSION NUMBER: 1992:476512 CAPLUS  
DOCUMENT NUMBER: 117:76512  
TITLE: Amylase-electrolyte oral rehydration method and  
composition  
INVENTOR(S): Lebenthal, Emanuel  
PATENT ASSIGNEE(S): Boatwright, Doyle W., USA  
SOURCE: U.S., 6 pp.  
CODEN: USXXAM  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5120539	A	19920609	US 1991-643414	19910122
CA 2100252	AA	19920723	CA 1992-2100252	19920121
WO 9212721	A1	19920806	WO 1992-US470	19920121
W: BR, CA, JP, SD				
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GN, GR, IT, LU, MC, ML, MR, NL, SE, SN, TD, TG				
BR 9205496	A	19940301	BR 1992-5496	19920121
JP 06504552	T2	19940526	JP 1992-505385	19920121
PRIORITY APPLN. INFO.: US 1991-643414 19910122				
WO 1992-US470 19920121				

AB A natural source of complex carbohydrates is boiled to produce an aq. soln. of dextrorotatory polysaccharides having a desired osmolarity and electrolyte concn. The product in combination with amylase is useful in treating diarrhea in children. For example, an **antidiarrheal** compn. contains .alpha.-amylase and short chain glucose polymers.

L12 ANSWER 6 OF 19 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1997:699181 CAPLUS  
 DOCUMENT NUMBER: 127:345725  
 TITLE: Dietary fiber compositions and their uses  
 INVENTOR(S): Kaneuchi, Osamu; Agata, Kazue  
 PATENT ASSIGNEE(S): Kirin Brewery Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
AB	JP 09278664	A2	19971028	JP 1996-83778	19960405
	Title compns., useful as foods, beverages, intestinal mucosa enhancers, defecation promoters, and intestinal function improvers, contain (a) protein- and insol. dietary fiber-contg. substances from barley germ or germinated rice seed and (b) water-sol. dietary fibers. Wet beer lees was pressed, sieved, dried, and pulverized to give a substance contg. protein 53.4, lipid 12.6, ash 2.0, and dietary fiber 32.1 wt.%. A mixt. of the substance and polydextrose (5:3) was added to a feed at 16% and fed to rats for 10 days to result in increase of feces dry wt. and intestinal mucosa protein and inhibition of diarrhea.				

L22 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1996:637637 CAPLUS  
 DOCUMENT NUMBER: 125:274318  
 TITLE: Process for enhancing the nutritional value of soy  
 protein for the young animal  
 Johnston, Charles  
 Ohio State University, USA  
 INVENTOR(S): Johnston, Charles  
 PATENT ASSIGNEE(S): Ohio State University, USA  
 SOURCE: U.S., 13 pp.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
AB	US 5565225	A	19961015	US 1995-397509	19950301

AB The present invention provides a novel soy flour-wheat flour feed, referred to herein as "MSWF feed" useful as a protein source in the diets of animals. Such MSWF feed is particularly useful for at least partially replacing milk as a protein source in the diets of young animals. The MSWF feed comprises modified soy flour, modified wheat flour and malted grain, preferably malted barley, and preferably yeast. Preferably, the wheat flour and soy flour are added in a ratio of from about 2:1 to about 0.1:9.9, by wt. and from about 0.25 to about 25% by wt. of the combined soy flour-wheat flour wt. of the malted grain. Unlike conventional soy flour, the MSWF feed does not induce diarrhea, poor growth or wt. loss assocd. with an allergic response. The MSWF feed is useful in the diets of young domestic animals, and is also useful as a food for humans particularly where an allergic reaction to soy flour is a problem. In the preferred embodiment, the MSWF feed is also useful in that it possesses improved suspending and dispersing characteristics when compared to conventional soy flour. The invention also relates to the process for feeding with the MSWF feed and making the MSWF feed.

L22 ANSWER 4 OF 10 MEDLINE

L22 ANSWER 2 OF 10 MEDLINE DUPLICATE 1  
ACCESSION NUMBER: 97249685 MEDLINE  
DOCUMENT NUMBER: 97249685 PubMed ID: 9095551  
TITLE: Preventive effect of germinated barley foodstuff on  
diarrhea induced by water-soluble dietary fiber in  
rats.  
AUTHOR: Kanauchi O; Nakamura T; Agata K; Fushiki T  
CORPORATE SOURCE: Applied Bioresearch Center, Kirin Brewery Co., Ltd.,  
Gunma,  
Japan.  
SOURCE: BIOSCIENCE, BIOTECHNOLOGY, AND BIOCHEMISTRY, (1997 Mar) 61  
(3) 449-54.  
Journal code: BDP; 9205717. ISSN: 0916-8451.  
PUB. COUNTRY: Japan  
LANGUAGE: Journal; Article; (JOURNAL ARTICLE)  
FILE SEGMENT: English  
ENTRY MONTH: B  
ENTRY DATE: 199705  
Entered STN: 19970523  
Last Updated on STN: 19970523  
Entered Medline: 19970513  
AB We investigated the preventive effect of germinated barley  
foodstuff (GBF) added to the diet on diarrhea induced by the  
dietary water-soluble dietary fibers, polydextrose, hemicellulose, and  
poly-acrylic acid sodium salt, in Sprague-Dawley rats. The minimum  
content  
of GBF necessary for blocking diarrhea was 3% (by weight) of the  
diet. Since GBF is mainly derived from the aleurone and scutellum of  
malted barley, we assessed the physiological effects of  
the aleurone and scutellum fractions derived from barley grains  
before and after germination. The addition of fractions containing only  
germinated barley, and not barley collected before  
germination, increased the fecal output and jejunal mucosal protein  
content. The effects of malted barley were very  
similar to those of GBF. It was concluded that germination was necessary  
to bring about the physiological effects of GBF. Since non-lignified  
hemicellulose and Gln-rich protein were newly synthesized during  
germination, these might have contributed to the increased fecal output  
and jejunal mucosal protein content.